

Table 35: Pulp mills' average operating days

Type of operation	Operating days	Number of Pulp Mills
Sulfite	354	2
Sulfate	350	4
Groundwood and Semi-chemical	349	5
State Total	351	11

Table 36: Pulp mill production by product and type of operation (bone dry tons)

Economic area	All products	Products				
		Newsprint	Bleached paper	Unbleached paper	Other paper	Market pulp
Puget Sound	588,266	0	158,266	0	350,000	80,000
Olympic Peninsula	616,136	0	316,712	0	145,074	154,350
Lower Columbia	1,918,129	705,721	355,423	807,161	0	49,824
Inland Empire	7,667,216	7,667,216	0	0	0	0
State Total	10,789,747	8,372,937	830,401	807,161	495,074	284,174

Table continued below

Type of Operation

Sulfite	312,616	0	158,266	0	0	154,350
Sulfate	1,909,296	0	672,135	807,161	350,000	80,000
Groundwood	8,518,011	8,372,937	0	0	145,074	0
Semi-chemical	49,824	0	0	0	0	49,824
State Total	10,789,747	8,372,937	830,401	807,161	495,074	284,174

Table 37: Pulp mill wood used (except roundwood) (bone dry tons)

Production region	Total	Chips			Sawdust and shavings	Waste paper
		Total Chips	Mill residues	Roundwood chipping mill		
Puget Sound	1,160,260	980,260	895,920	84,340	0	180,000
Olympic Peninsula	843,898	561,534	377,872	183,662	85,087	197,277
Lower Columbia	2,624,330	2,309,244	1,810,125	499,119	51,492	263,594
Inland Empire	385,651	302,965	86,136	216,829	0	82,686
State Total	5,014,139	4,154,003	3,170,053	983,950	136,579	723,557

Table 38: **Chips and residues** (bone dry tons)

Production region	All species	Douglas	Hemlock	True	Spruce	Ponderosa	Lodgepole	Western	Other	Red	Other
	-fir	-fir		fir		pine	pine	red cedar	conifer	alder	hardwood
Puget Sound											
Roundwood chips	84,340	53,043	13,193	0	0	0	0	6,500	0	0	11,604
Residues	1,160,260										
Total Chips	1,244,600										
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Olympic Peninsula											
Roundwood chips	183,662	76,754	77,792	0	2,426	0	0	26,690	0	0	0
Residues	843,898										
Total Chips	1,027,560										
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Lower Columbia											
Roundwood chips	499,119	149,000	52,672	126,	0	40,687	44,765	14,747	14,747	23,828	31,852
Residues	2,624,330										
Total Chips	3,123,449										
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Inland Empire											
Roundwood chips	8,029	8,029	0	0	0	0	0	0	0	0	0
Residues	385,651										
Total Chips	393,680										
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State Total											
Roundwood chips	775,150	286,825	143,65	126,	2,426	40,687	44,765	47,936	14,747	23,828	43,456
Residues	5,014,139										
Total Chips	5,789,289										

Table 39: **Residue and off-site chip use by state or province** (bone dry tons)

Production region	Total volume	Washington	Oregon	Idaho	Montana	British Columbia	Other
Puget Sound							
Chip residue	1,160,260						
Chip roundwood	84,340	77,840	0	0	0	6,500	0
Sawdust and shavings	0	0	0	0	0	0	0
Total	1,244,600	77,840	0	0	0	6,500	0
Olympic Peninsula							
Chip residue	843,898						
Chip roundwood	183,662	175,170	0	0	0	8,492	0
Sawdust and shavings	85,087	79,131	0	0	0	5,956	0
Total	1,112,647	254,301	0	0	0	14,448	0
Lower Columbia							
Chip residue	2,624,330						
Chip roundwood	499,119	361,027	129,192	7,629	1,271	0	0
Sawdust and shavings	51,492	46,343	5,149	0	0	0	0
Total	3,174,941	407,370	134,341	7,629	1,271	0	0
Inland Empire							
Chip residue	385,651						
Chip roundwood	216,829	101,989	0	98,136	2,088	14,616	0
Sawdust and shavings	0	0	0	0	0	0	0
Total	602,480	101,989	0	98,136	2,088	14,616	0
State Total							
Chip residue	5,014,139						
Chip roundwood	983,950	716,026	129,192	105,765	3,359	29,608	0
Sawdust and shavings	136,579	125,474	5,149	0	0	5,956	0
Total	6,134,668	841,499	134,341	105,765	3,359	35,564	0

Shake and Shingle Mills:Tables 40-45

Table 40: **Shake and shingle mills' capacity and operating days**

Production region	Number of mills	Total single shift capacity (Squares)			Average number of operating days/year
		Shake	Shingle	Other	
Puget Sound	4	68	114	200	218
Olympic Peninsula	18	1,293	427	119	190
Lower Columbia	1	0	25	0	200
State Total	23	1,361	566	319	195

Table 41: **Shake and shingle mills with selected equipment**

	Chipper	Barker	Burner
State Total	1	0	6

Table 42: **Wood used** (thousand board feet, Scribner rule)

	All types	Sound logs	Utility logs	Other (shake bolts, etc.)
State Total	12,156	2,022	0	10,134

Table 43: **Ownership origin of logs** (thousand board feet, Scribner rule)

	All owners	State	National Forest	Bureau of Land Management	Other public	Forest industry		Native American	Farmer and miscellaneous private
						Own wood supply	Other wood supply		
State Total	2,022	0	0	0	0	0	659	401	963

Table 44: **Shake mill production** (squares)

	Product			Total
	Shakes	Shingles	Other	
State Total	9,553	77,219	41,757	128,529

Table 45: **Shake mill wood and bark residues** (dry weight tons)

All Wood Types						
	Total	Total	Pulp	Fuel	Other	Unused
	Total	used				
State Total	56,696	40,350	0	36,446	3,904	16,346
Coarse						
	Total	Total	Pulp	Fuel	Other	Unused
	Total	used				
State Total	13,880	9,441	0	8,893	548	4,439
Fine						
	Total	Total	Pulp	Fuel	Other	Unused
	Total	used				
State Total	42,816	30,909	0	27,553	3,356	11,907
Bark						
	Total	Total	Pulp	Fuel	Other	Unused
	Total	used				
State Total	31,832	27,427	0	10,003	17,424	4,405

Post, Pole and Piling Mills:Tables 46-49

Table 46: **Post, pole and piling mills operation characteristics**

	Number of mills	Yearly installed capacity (thousand board feet Scribner rule)				Average number of operating days in 2002			
		Peeling		Treatment		Peeling		Treatment	
State Total	6	41,107		10,593		206		265	

Table 47: **Post, pole and piling mills with selected equipment**

	Number of mills	Peeler	Burner
State Total	6	6	0

Table 48: **Log use by diameter** (thousand board feet, Scribner rule)

	Total	Diameter in inches			
		Less than 5	5-10.9	11-20.9	21 or more
State Total	30,593	3,814	19,685	7,095	0

Table 49: **Mill shipments** (thousand board feet, Scribner rule)

Production region	Treated	Untreated	Total
Puget Sound	12,795	906	13,701
Olympic Peninsula	250	38,222	38,472
Inland Empire	187	21	208
State Total	13,232	39,149	52,381

Log Exports: Tables 50-57

Table 50: Log export operations and volume

Port	County	Number of operations	Volume of logs exported
Puget Sound			
Anacortes	Skagit	3	10,130
Everett	Snohomish	5	42,952
Tacoma	Pierce	5	117,690
Total		13	170,772
Olympic Peninsula			
Aberdeen	Grays Harbor	3	104,866
Olympia	Thurston	9	63,446
Port Angeles	Clallam	2	1,167
Total		14	169,479
Lower Columbia			
Longview	Cowlitz	12	543,147
Total		12	543,147
State Total		39	883,398

Table 51: Logs exported by diameter (thousand board feet, Scribner rule)

Production region	Diameter in inches				
	Total	Less than 5	5 - 10.9	11 - 20.9	21 +
Puget Sound	170,772	0	36,887	120,637	13,248
Olympic Peninsula	169,479	580	34,584	118,354	15,961
Lower Columbia	543,147	4,756	132,397	361,138	44,856
State Total	883,398	5,336	203,867	600,128	74,066

Table 52: **Log exports by species** (thousand board feet, Scribner rule)

Production region	All species	Douglas- fir	Hemlock	True fir	Spruce	Ponderosa pine	Lodgepole pine	Western red cedar	Other conifer	Red alder	Other hardwood
Puget Sound	170,772	156,68	12,157	1,132	0	0	0	0	400	0	403
Olympic Peninsula	169,479	124,73	43,041	1,292	9	0	0	400	0	0	0
Lower Columbia	543,147	522,01	19,926	657	0	0	0	550	0	0	0
State Total	883,398	803,433	75,123	3,080	9	0	0	950	400	0	403

Table 53: **Ownership origin of export logs** (thousand board feet, Scribner rule)

Region	All owners	State	Forest industry						
			National Forest	Bureau of Land Management	Other public	Own wood supply	Other wood supply	Native American	Farmer and miscellaneous private
Puget Sound	170,772	0	0	0	0	95,435	40,955	0	34,383
Olympic Peninsula	169,479	0	0	0	0	90,491	54,670	173	24,145
Lower Columbia	543,147	0	0	0	0	239,450	252,822	0	50,876
State Total	883,398	0	0	0	0	425,375	348,446	173	109,403

Note: Export of logs from public lands is prohibited by federal law.

Chipping Mills:Tables 54-57

Table 54: **Capacity and operating days of chipping mills** bone dry tons

Production region	Number of Operations	8-hour capacity	Average days operated
Puget Sound	3	675	202
Olympic Peninsula	4	1,230	236
Lower Columbia	4	952	112
Inland Empire	2	1,007	162
State Total	13	3,864	178

Table 55: **Chip logs by diameter** (thousand board feet, Scribner rule)

Production region	Diameter in inches				
	Total	Less than 5	5 - 10.9	11 - 20.9	21 or more
Puget Sound	17,365	5,382	4,252	3,932	3,799
Olympic Peninsula	69,625	46,215	13,011	3,781	6,618
Lower Columbia	31,055	19,678	4,507	3,810	3,060
Inland Empire	73,184	11,774	12,092	35,318	14,000
State Total	191,229	83,048	33,862	46,842	27,477

Table 56: Ownership origin of logs (thousand board feet, Scribner rule)

Production region	All owners	State	National Forest	Bureau of Land Management	Other public	Forest industry		Native American	Farmer and miscellaneous private
						Own wood supply	Other wood supply		
Puget Sound	17,365	2,656	151	0	756	0	11,433	35	2,334
Olympic Peninsula	69,625	14,825	1,231	0	1,211	0	37,787	1,882	12,688
Lower Columbia	31,055	1,791	1,936	0	138	9,549	9,622	0	8,019
Inland Empire	73,184	7,318	3,818	0	0	0	50,592	318	11,137
State Total	191,229	26,591	7,136	0	2,105	9,549	109,434	2,235	34,178

Table 57: Chip logs by species and economic region (thousand board feet, Scribner rule)

Production region	All species	Douglas -fir	Hemlock	True fir	Spruce	Ponderosa pine	Lodgepole pine	Western red cedar	Other conifer	Red alder	Other hardwood
Puget Sound	17,365	3,887	5,700	2,277	156	0	0	302	302	2,872	1,867
Olympic Peninsula	69,625	27,41	26,025	116	58	0	1,572	1,562	0	11,60	1,270
Lower Columbia	31,055	6,980	2,255	5,159	0	1,708	1,139	0	0	12,43	1,381
Inland Empire	73,184	4,137	159	61,410	32	7,318	96	32	0	0	0
State Total	191,229	42,419	34,140	68,963	246	9,027	2,807	1,897	302	26,911	4,518